

AMENDMENT UNDER 37 C.F.R § 1.116  
U.S. Appln. No.: 09/882,018  
Attorney Docket No.: Q64966

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (original): A method of constructing a representation of the geographical distribution of traffic for a cellular radio network, the method comprising the steps of:

dividing each cell of said cellular network into a set of areas using information on handovers obtained from said cellular network;

determining a traffic value for each of said areas; and

determining a representation of the geographical distribution of the traffic from said traffic values.

2. (original): A method according to claim 1, wherein the traffic value of an area depends on a handover probability associated with that area.

3. (original): A method according to claim 2, wherein said handover probabilities are computed conjointly with said traffic values by a constraint optimization method.

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4. (original): A method according to claim 1, wherein the step of dividing each cell is made up of the following substeps:

acquiring incoming handover boundaries from best server maps provided by a management system, and

computing outgoing handover boundaries from said incoming handover boundaries, said outgoing handover boundaries forming the boundaries of said areas.

5. (currently amended): A method according to claim 1, wherein the following equation is satisfied 
$$\left[ \sum_{k \in J(i)} \lambda_k = t \right] \quad \sum_{k \in J(i)} \lambda_k = t_i$$
 such that  $J(i)$  is the set of indices of the areas belonging to cell  $i$  and  $t_i$  is the traffic value for cell  $i$ .